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CHRISTCHURCH, DORSET.

A considerable portion of the parishioners of Christchurch, Hampshire, lately held a meeting respecting the flooding which frequently takes place in the churchyard. The Board of Health, it will be remembered, on the application of the Corporation of the city, forbidding, upon declared sanitary grounds, the further interment of the dead in the churchyard, the Board received an intimation that if the Act enforcing the removal should be the consequence, on the previous night 1,500 of the inhabitants of Christchurch had met, and the Hall in petition signed by 250 persons in favour of continuing the interments, although it was not stated that any evidence to prove such existence to persons. Alderman Wilkes, however, said he was unable to discern any of the flooding; the latter said it was no more a nuisance than the opposite the Archbishop of Canterbury's, at Lambeth, which had never been interfered with. The doctors, parsons, and coroner for Greenwich wanted every thing their own way. The City Solicitor said there was no doubt of the power of the Lord Mayor to remove the corpses, and to sell it for the use of the Board to do so; but perhaps the best course would be to leave the matter until the next Court of Conservancy, and eventually to settle it by reference to a jury. This mode was at length agreed to. —*Era, Sunday, June 11th.*

Our attention had been attracted towards the *permanent* pier at Greenwich, as called, we presume, in contradistinction to the floating pier, or rather pontoon bridge, of the watermen. We had any special or exclusive information upon the subject, we looked over the ruin, and from our knowledge of the professional reputation of the contractors, and the working power of their establishment, we at once, in our own minds, set down the failure as resulting from a question of cost between what the thing is and what it ought to have been; or, in other words, that the parsimony of the proprietors, or their then agents, had overruled the better judgment of the builders, in beginning for cheap execution of a more difficult and expensive work. It seems to us that upon this one principle, by those concerned have been in error in the construction of the foundations, as always declining of the chalk, the instability of a shifting foundation, the use of the tide upon the angles of the structure, and the constant use of large by steam vessels, employed not only to [illegible] to grapple with unfortunate circumstances after difficulties, but, formally, the shifting of a thousand tons [illegible] that had yet been calculated upon. The "to be" or "not to be" of the so-called permanent pier is one question; the question of [illegible] permanent pier is another, and requires considerations from the profession [illegible]

The contract we learn from a popular London journal, allowed that much difference of opinion as well as excitement prevails as to the policy or prudence of doing away with the Watermen's Pier; a difference sufficiently [illegible] the suspension of an act of [illegible] ready to [illegible] the river, and in the quality of conveyance [illegible] excitement evinced in land and deep [illegible] ings. Our business is here with the [illegible] with the *building*; but we are advocates of the industrious classes, whatever may be their occupation. If steamboats by running [illegible] —if severely exacted contracts to their company in past times of peril—if to have been visiting the greatest sufferers in the contest between hand-labour and mechanic power, by the application of steam to navigation on the river Thames, constitute grounds for sympathy in their cause, then are the watermen before the public with strong claims to [illegible] support.

The permanent pier, as we understand the matter, is a speculation, a planning off money for a purpose which may or may not answer; such speculations of wealthy capitalists, [illegible] have frequently been an incentive of advantage to the public, and in addition to parties engaged in them; in the instance we have here to [illegible] the influence of private profit. The case of the watermen exhibits that the poorer classes of professional artizans [illegible] an unfavourable opinion, by means of this species of accommodation to visitors by the steam-boats, a portion of the [illegible] daily gratuitous deprivation (without other recompense) of their accustomed and legitimate employment.

IMPROVED DRAWING SCALES.

During the past months we have had our attention directed to a series of improved drawing scales, arranged expressly for all classes of professional men, who have to execute rural or topographical plans and elevations or isometric, military, or perspective representations of objects. Before, however, we proceed to explain their construction and utility, we will say a few words on the manner of drawing lines by way of information to the learner.

It will be well known to the greater number of our readers, that the usual little and materials required by draughtsmen, consist of a case of mathematical instruments, an oblong drawing board, a T square, a set of triangular instruments, a box of colours, and hair pencils, rubber, sponge, penknife, black-lead pencils, indian-rubber, an ebonite, a few pins and needles, with a suitable supply of drawing-paper.

The common case of mathematical instruments contains a pair of compasses with pen leg prepared to act as a cutter, or that which is for compasses to act them to any particular expansion, are governed by placing the steel leg in one gentle and using the second leg nearly to the required distance, then, by means, a small [illegible] which would not [illegible] the point of [illegible] can determine; on the moment they are usually opened have spring sufficient, in addition to [illegible] there is a second pair of compasses, [illegible] the pen of one leg can be screwed [illegible] and in the place thereof may be inserted the pencil or pen point, or some convenient [illegible] but is provided which is prepared to screw in the [illegible] pen at one end, whilst the opposite end is arranged to receive the pencil or pen point. There is also a small hair pencil and hair pen, with one or two drawing pens; in addition to these there is usually a parallel ruler, a protractor, and a plane scale, which is usually graduated to act as a protractor.

We now proceed to describe the manner in which the common case of instruments [illegible] the construction of those who have occasion to employ them. The foregoing compasses are used for several purposes, such as transferring any given length from one of the scales of equal parts, to a certain part or parts of the drawing in progress, in [illegible] straight lines and circular arcs with any number of equal parts, in determining the length of any given lines by a scale of equal parts, and the multiplication of any lines to such other lines [illegible] of course. The hair pencil is used in [illegible] also small circles [illegible] the second pair of compasses is [illegible] the pencil point, or [illegible] pen point. The small compasses [illegible] or set off from a scale of equal parts [illegible] a given degree down a line, [illegible] of the opening to a several lines; once [illegible] and length of the chord of the [illegible] must be taken from a scale of chords. The parallel rule is employed as a guide in drawing straight lines by means of a pencil or [illegible] pen, similar to any given or assumed position although in the present case [illegible] of this valuable instrument is seldom required by mechanical, engineering, or architectural draughtsmen, owing to the [illegible] which they enjoy in using the T square, set square, with a moveable edge, and other simple and effective drawing instruments, the utility of which we shall take some other opportunity of explaining.

The protractor is very useful as a combined instrument, but as it is seldom used by draughtsmen, and as it is also [illegible] to the construction of it might lead many to [illegible] and prevent some from all other truths, in improving in engineering, we [illegible] to describe the utility of the several scales and instruments contained in it.

The plane scale is arranged in a variety of different manners, although it is usually [illegible] having one edge divided into [illegible] equal parts of 1, 1½, 2, and 3 inches to the inch; the [illegible] of each of these is subdivided into ten equal parts; these scales are used in plotting off or determining the proportional length of any straight lines, or the distance between two points in [illegible] surface; the edges of this [illegible] are arranged in a protractor, for regulating or determining the inclination of two lines to each other. On the second face there is a scale of chords, arranged for a 2-inch radius, with six varieties of equal parts, as divided thereon, 10, 12, 45, 40, 35, and 36 of each of them are equal in length to 10 inches; the first part in each of these scales are subdivided into ten equal parts, these scales are used in plotting off or determining the proportional length of any straight lines, or the distance between two points in a plane surface; the edges of this [illegible] are arranged in a protractor, for regulating or determining the inclination of two lines to each other. On the second face there is a scale of chords, arranged for a 2-inch radius, with six varieties of equal parts, as divided thereon, 10, 12, 45, 40, 35, and 36 of each of them are equal in length to 10 inches; the first part in each of these scales are subdivided into ten equal parts;